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Massachusetts Department of Public Health
Bureau of Health Statistics, Research and Evaluation

April 1996

Massachusetts Department of Public Health
Bureau of Health Statistics, Research and Evaluation

INFORMATION RESOURCE GUIDE

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Department of Public Health

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APRIL 1996

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MISSION STATEMENT

Massachusetts Department of Public Health

The Massachusetts Department of Public Health (MDPH) promotes and assures conditions that improve and protect the health of Massachusetts residents. MDPH focuses on community-based approaches, fosters continuous improvements in the health status of individuals and communities, supports programs which prevent and treat disease and disability, and intervenes to reduce threats to the public's health. MDPH's focus includes the health status of all Massachusetts residents and communities, with particular emphasis on those at highest risk and in greatest need.

MDPH defines health broadly and stresses integration of disease specific programs which reflect the complexity of community, family and individual situations. Priorities are based upon community health status needs. The Department assists communities to define needs, and to identify appropriate public health interventions.

MDPH works with communities, organizations and health care providers to enhance health status, develop and implement public health interventions, contain health care costs, and maximize access to high quality and affordable health care by all Massachusetts residents.

Bureau of Health Statistics, Research and Evaluation

The **Bureau of Health Statistics, Research and Evaluation (BHSRE)** monitors the health status of Massachusetts residents through collecting information on births, deaths, newly diagnosed cases of cancer, occupational illnesses and injuries, and health behaviors. BHSRE provides information essential for identifying local and statewide health problems, and targeting and evaluating public health programs. BHSRE makes information available to the public through: reports and other publications; consulting, technical assistance, lectures, and release of data from individual data sets and electronic information services. BHSRE includes the Registry of Vital Records and Statistics, the Massachusetts Cancer Registry, the Occupational Health Surveillance Program, the Division of Research and Epidemiology, the Chronic Disease Surveillance Program, and the Weapons-Related Injury Surveillance System. Through its Division of Data Management, BHSRE is also actively involved in the development of software to support its surveillance and public information activities

Registry of Vital Records and Statistics: is responsible for the legal registration, collection, and reporting of almost 250,000 births, deaths, marriages, and divorces annually. Massachusetts statewide vital statistics system was established in 1841, and is the oldest statewide system in the nation. Registry data form the basis of health status monitoring in Massachusetts, and Registry data and records are used for research by medical researchers, epidemiologists, demographers, historians, and genealogists. Each year, Registry data are used to publish *Advance Data: Births*, *Advance Data: Deaths*, and the *Annual Report of Vital Statistics in Massachusetts (Public Document 1)*, which contain a wealth of data on the health status of Massachusetts residents.

Massachusetts Cancer Registry (MCR): collects data on all newly diagnosed cases of cancer for Massachusetts residents from all acute care hospitals in Massachusetts and through inter-state agreements with hospitals in neighboring states. In 1996, the MCR also began to collect cancer incidence data from HMOs, other ambulatory care facilities, private laboratories, and private physician offices. The Rapid case database, maintained by the MCR, provides researchers quick access to cancer incidence data. The cancer registry disseminates cancer incidence data for environmental studies, cancer control, and biomedical research. Each year the MCR issues *Cancer Incidence in Massachusetts*, which contains a wealth of data on cases of cancer diagnosed in Massachusetts.

Division of Research and Epidemiology: provides health related information to the Bureau, the Department, other agencies, community groups, researchers, and the public. The focus of the Division of Research and Epidemiology is on providing health status, demographic, and disease risk factor information for program planning and policy development through publications, information dissemination, and access to computer data bases. The Division is actively involved in supporting the Department's Community Health Network activities through the provision of health status indicator data and technical support at the community level. In addition, division staff perform research and more complex analyses related to Department priorities.

Chronic Disease Surveillance Program (CDSP): collects, analyzes, and disseminates data relating to the occurrence of chronic disease in Massachusetts. A main activity of CDSP is conducting the Behavioral Risk Factor statewide survey, which provides information on a wide variety of health conditions, health risk factors, and health behaviors. This information is used throughout Massachusetts to target preventive health interventions and to track progress towards the adoption of healthy behaviors among Massachusetts residents.

Occupational Health Surveillance Program (OHSP): conducts surveillance of selected work-related illnesses and injuries, including fatal occupational injuries, occupational lead poisoning, work-related carpal tunnel syndrome, occupational asthma, acute chemical poisonings, and work-related injuries to youth. Data are used to target intervention efforts in Massachusetts, and to develop prevention and education programs.

Weapons-Related Injury Surveillance System (WRISS): is a federally-funded project which collects data on gunshot and sharp instrument wounds treated in Massachusetts from hospital emergency departments. WRISS also analyzes data from police ballistics laboratories, state and federal law enforcement agencies, emergency department log software designed by the project itself, follow-up surveys to gun accident victims, assault victim interviews, and statewide surveys.

REPORTS

Title	Price ⁺⁺	Year Published
<i>Adolescent Births: A Statistical Profile 1993</i>	no charge	1995
<i>Adolescent Births: A Statistical Profile 1994</i> (Supplement to Advance Data Births: 1994)	no charge	annually
<i>Advance Data: Births 1986-1994</i> Each annual report @	4.50	annually
<i>Advance Data: Deaths 1987-1994</i> Each annual report @	4.50	annually
<i>Annual Report of Vital Statistics of Massachusetts 1986-1993</i> Each annual report @	6.50	annually
<i>Asbestos-Related Lung Disease in Massachusetts Workers, 1982-1987</i>	2.50	1991
<i>Behavioral Risk Factors and Preventive Health Measures: Massachusetts</i> <i>Behavioral Risk Factor Surveys, 1986-1990</i>	5.00 [*]	1992
<i>Behavioral Risk Factor Survey: 1991 Summary Report</i>	3.00 [*]	1993
<i>Behavioral Risk Factor Survey: 1993 Summary Report</i>	3.00 [*]	1995
<i>Bladder Cancer and Employment in the Pittsfield, Massachusetts Area</i>	3.50	1989
<i>The Burden of Smoking on Mothers and Infants in Massachusetts</i>	no charge	1993
<i>Cancer Incidence Among Massachusetts Firefighters</i>	2.50	1990
<i>Cancer Incidence by Occupation and Industry in Massachusetts, 1982-1983</i>	5.50	1990
<i>Cancer Incidence in Massachusetts: 1982-1990</i> Each annual report @	3.50	annually
<i>Cancer Incidence in Massachusetts: 1982-1992</i>	3.00	annually
<i>Cancer Incidence in Massachusetts: City and Town Supplement</i>	6.50	annually
both <i>Cancer Incidence</i> volumes	8.00	annually
Chartbook Series on Massachusetts Elders		
Volume 1: <i>Massachusetts Nursing and Rest Home Trends: 1978-1986</i>	3.00	1988
Volume 2: <i>Elderly Residents of Massachusetts Nursing and Rest Homes: A Profile</i>	3.00	1989
Volume 3: <i>The Elderly in Massachusetts: Demographic and Mortality Characteristics</i>	3.00	1990
Volume 4: <i>The Oldest Old in Massachusetts, 1900-2050</i>	3.00	1990
<i>Childhood Cancer in Massachusetts: 1982-1986</i>	4.00	1989

<i>Chinese and Southeast Asian Births in Massachusetts</i>	7.50	1993
<i>Dying for the Job: Traumatic Occupational Deaths in Massachusetts</i>	4.50	1989
<i>Fatal Injuries at Work, 1994 Update (formerly Traumatic Deaths at Work)</i>	no charge	1996
<i>Health Care Utilization and Charges for AIDS and HIV Disease</i>	no charge	1993
<i>Health Status Indicators for Community Health Network Areas:</i> (available for each of 27 areas)	no charge	periodic updates
<i>Hispanic Births in Massachusetts, Volume I</i>	5.00	1989
<i>Hispanic Births in Massachusetts, Volume II, City Data Book</i>	5.50	1989
<i>Homicide in Massachusetts: Trends and Characteristics, 1978-1993</i>	no charge	1995
<i>Injuries in Massachusetts: An Overview of Causes and Costs</i>	no charge	1992
<i>Lead At Work: Elevated Blood Lead Levels in Massachusetts Workers,</i> <i>April - October 1991</i>	3.00	1992
<i>Lead At Work: Elevated Blood Lead Levels in Massachusetts Workers,</i> <i>April 1991- October 1993</i>	3.00	1994
<i>Occupational Safety and Health in Massachusetts: the Need for Surveillance</i>	5.00	1989
<i>Protecting Working Teens: A Public Health Resource Guide</i>	8.00**	1995
<i>Smoking: Death, Disease and Dollars</i>	3.00	1991
<i>Traumatic Occupational Fatalities in Massachusetts,</i> <i>November 1986-October 1987</i>	no charge	1989
<i>Traumatic Deaths at Work, 1991 Update</i>		1992
Updates available through 1994 (see <i>Fatal Injuries at Work</i>)	no charge	annually

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Name:

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Address:

++ Prices include postage and handling

Please make check payable to COMMONWEALTH OF MASSACHUSETTS (except for publications marked "**") and mail to:

Public Information

MDPH

Bureau of Health Statistics, Research & Evaluation, 6th Floor

250 Washington Street

Boston, MA 02108-4619

* For *Behavioral Risk Factors...* Please make check payable to MHRI, Inc. and send to address above.

** For *Protecting Working Teens: A Public Health Resource Guide*, please send your request with a check in the amount of \$8.00, payable to **Education Development Center, Inc.** (includes shipping and handling) to MJ Kim, Children's Safety Network, Education Development Center, 55 Chapel Street, Newton, MA 02158.

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Books/Proceedings

B Cohen and R Danley: "A Demographic Profile and Mortality Among the Elderly" In: Elders at Risk: Monitoring the Massachusetts Health Care System. Lerner and Loew, eds. Massachusetts Health Data Consortium, 1989.

B Cohen, M Aguiar, et al: "Hispanic Births in Massachusetts; 1986-1987," In: Mothers, Infants, and Children at Risk: Monitoring the Massachusetts Health Care System. Loew and Lerner, eds. Massachusetts Health Data Consortium, 1990.

PRESENTATIONS

Bureau of Health Statistics, Research and Evaluation staff are available upon request and with adequate notice to deliver the following presentations:

Chronic Disease Surveillance Program

An Overview of the BRFSS Survey

contact: Daniel R. Brooks
phone: (617) 624-5636

Community Health Network Area (CHNA) Initiative

Introduction to Health Status Indicators for Community Health Network Areas

contact: Bruce B. Cohen, PhD
phone: (617) 624-5635

Demography

Updating Population Figures throughout the Decade

U.S. Census Bureau's Race, Ethnic and Ancestry Statistics

U.S. Decennial Census: General Overview

contact: Christine Payne
phone: (617) 624-5641

Massachusetts Cancer Registry

Cancer Incidence in Massachusetts

Cancer Registry Methodology

contact: Susan T. Gershman, PhD
phone: (617) 624-5646

Occupational Health Surveillance Program

Lead Poisoning in Massachusetts Adults (or Occupational Lead Poisoning in Massachusetts Workers)

Mandatory Reporting of Occupational Disease in Massachusetts

Occupational Fatalities in Massachusetts

Occupational Illness and Injury Surveillance in Massachusetts

Occupational Injuries to Working Children

contact: Letitia K. Davis, ScD

phone: (617) 624-5621

Research and Epidemiology

Race and Ethnicity in Public Health Surveillance

Updates on Annual Birth and Death Data

Variations in Birth Weight by Race/Ethnicity

contact: Bruce B. Cohen, PhD

phone: (617) 624-5635

Vital Statistics Workshops

The Birth File

Cause of Death

General Overview of the Death File

Infant and Perinatal Deaths

contact: Elaine B. Trudeau

phone: (617) 753-8617

Weapon-Related Injury Surveillance Program (WRISS)

Weapon Injury Surveillance: General Methods

Weapon Injury Surveillance: topics by request; available by city, region, or statewide

contact: Victoria V. Ozonoff, PhD

phone: (617) 624-5425

DATA SETS

Summary of Surveys and Data Systems

The data sets are described as they are currently constituted. Anyone using statistical information for comparisons over time should be aware of changing conventions for classification and coding. This is particularly important when using cause of death information. Codes used for classifying cause of death are based on the Ninth Revision of the International Classification of Diseases, World Health Organization. Classification of variables such as race, nativity, and marital status may also differ over time.

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DATA REQUEST PROTOCOLS

Individuals requiring access to confidential data from the Registry of Vital Records and Statistics or the Massachusetts Cancer Registry for the purpose of conducting research, or requesting protection from subpoena of medical and scientific data, must complete an application under Massachusetts General Laws, Chapter 111, Sections 24 A and B, or Section 111B.

Protection from subpoena of medical and scientific data (24A):

Legal protection under M.G.L. c. 111, §24A provides subjects and health care institutions with reasonable legal assurances that data which are obtained in an authorized study will not be subject to subpoena in legal proceedings. Particularly in studies which involve sensitive issues which could involve litigation--substance abuse, criminal activities, paternity--such protection may be crucial in securing the participation of subjects and approval from institutional review boards. See 24AB review process below.

Access to confidential vital records data (24AB):

Upon receipt of the completed application materials, the request will be reviewed by the Chapter 111, Section 24A and B Review Committee. Reviewers consider such issues as purpose of request, potential for reducing the morbidity and mortality within Massachusetts, research design, provisions for maintaining confidentiality, and the applicants' qualification to conduct the study. When access to individual records with identifiers is requested, file linkages are planned, or follow-up to medical records or with the subjects of the records is intended, the data will be released only under most restrictive conditions which guarantee that confidentiality will be maintained. If the request satisfies the requirements for authorization, a letter from the Commissioner of Public Health granting access to the data will be issued. You may expect to receive a letter of authorization between 4-6 weeks after our receipt of your application. The principal investigator will be asked to co-sign the stipulations agreement, and return it to MDPH. If the request is incomplete, or if committee members have questions concerning the research protocols, applicants will be contacted by the Assistant Commissioner, Bureau of Health Statistics, Research and Evaluation, who chairs the review committee. All approved requests will also be granted 24A protection.

The Application for Protection from Subpoena of Medical and Scientific Data (24A) and the Application for Access to Confidential Vital Records Data (24AB) may be obtained by calling Alice Mroszczyk at (617) 624-5616.

Access to Massachusetts Cancer Registry (MCR) data (111B):

Upon receipt of the completed application and attachments, the request is reviewed by the MCR Research Review Committee, a group of prominent cancer researchers from outside MDPH. Confidential Cancer Registry data and *individual* non-confidential records are only released for research purposes after thorough technical review of this application. Committee members review research proposals for access to confidential data based on the qualifications of the researcher and the supporting institution conducting the project, adequacy of confidentiality measures, the scientific merit of the proposal, and its relevance to cancer epidemiology and cancer control in Massachusetts. The committee makes a recommendation regarding the release of the data to the Commissioner, who then determines whether the data should be released. Researchers will receive a letter granting access to the data and will be asked to co-sign the stipulations agreement, and return it to MDPH. All persons who will have access to the data must sign and return a Researcher's Pledge of Confidentiality to be kept on file at the MCR. Approved requests for confidential cancer registry data will also be reviewed for Section 24A protection.

The Application for Access to Cancer Registry Data may be obtained by calling Annie MacMillan at (617) 624-5648.

FEE SCHEDULE

effective January 1996

Requests for data maintained by Bureau of Health Statistics, Research and Evaluation

(per MGL c.7, 3B, MGL c.66, 10 and 950 CMR 32.00,
MGL c.111, s.24A and B, MGL c.262, 44A)

Telephone: (617) 624-5699

Data released as a result of approved applications are subject to charges for computer time, programming time, materials, and any other costs incurred by MDPH in producing the requested data.

Unit	Description	Rate
	PERSONNEL	
hour	Programmer	21.00
hour	Epidemiologist	24.00
hour	Clerical	14.00
hour	Other	
job	Computer CPU Charges	
	OUTPUT/MEDIUM	
page	Laser	.50
page	Xerox	.20
each	Diskette	1.25
reel	Blank tape	50.00
	VITAL RECORDS	
Certified copy	Certificates: Birth/Death etc.	6.00
each	PUBLICATION	cost
	Call for a list of available publications.	
each	POSTAGE	cost
each	OTHER CHARGES	cost

All rates subject to change. Job estimate is an approximation, not a cost quotation.

Delivery made upon receipt of payment.

DATABASE/DATAFILE TITLE:

Behavioral Risk Factor Surveillance System (BRFSS)

DATA SOURCE/METHODS:

Random digit dial telephone survey

UNIVERSE/SAMPLE:

Statewide (all residents with telephones); In recent years, Approximately 3,000 interviews conducted, including oversampling of minority residents and residents of largest cities

FREQUENCY/YEARS:

Annual, beginning in 1986

DATA ELEMENTS:

Demographics - Age, sex, race/ethnicity, marital status, employment, education, and income

Medical/Health Risk Factors - Overweight, weight control, physical activity, smoking behavior, alcohol use, routine medical checkup, high blood pressure, blood cholesterol, mammography, diabetes, pap smear, diet/nutrition, colo-rectal cancer screening, health insurance coverage, HIV/AIDS, vaccination, injury (seat belt, bicycle helmet, smoke detectors) *

GEOGRAPHIC COVERAGE

State x (with some regional detail) County City/Town x (selected)

Census Tract

Community Health Network Area (CHNA) Zip Code Areas

RESTRICTIONS ON ACCESS:

Public Access: Summary data by topic and year

Confidential: Individual records with person-identifying information

STANDARD REPORTS GENERATED:

Behavioral Risk Factors and Preventive Health Measures: Massachusetts Behavioral Risk Factor Surveys: 1986-1990.

Behavioral Risk Factor Survey: 1991 Summary Report

Behavioral Risk Factor Survey: 1993 Summary Report

CONTACT PERSON: Name: Daniel Brooks
Division: Division of Research and Epidemiology
Phone: (617) 624-5636

* Additional questions on a range of topics are added annually.

DATABASE/DATAFILE TITLE:

Births

DATA SOURCE/METHODS:

Birth Certificate Registration System

UNIVERSE/SAMPLE:

All Massachusetts resident and occurrence births

FREQUENCY/YEARS:

The birth registration system was computerized in 1969

DATA ELEMENTS:

See the following two pages

GEOGRAPHIC COVERAGE:

State x County x City/Town x

Census Tract x (as of 1987)

Community Health Network Area (CHNA) x Zip Code Areas x

RESTRICTIONS ON ACCESS:

Public Access: Summary data by topic and year; events of less than five are suppressed

Confidential: Access to individual records, with or without confidential medical information, must receive approval by the Massachusetts Department of Public Health through a detailed review process. See Data Request Protocols, page 13. Out of state occurrences are available only with permission from individual states if information with identifiers is requested.

STANDARD REPORTS GENERATED:

Annual Report of the Vital Statistics of Massachusetts (Public Document 1)

Advance Data: Births

CONTACT PERSON: Name: Charlene Zion
 Division: Registry of Vital Records and Statistics
 Phone: (617) 753-8670

ITEM CHECKLIST

Massachusetts Standard Certificate of Live Birth

PERSONAL INFORMATION (MOTHER)

Name

- ☐ First
- ☐ Middle
- ☐ Last
- ☐ Birth Surname
- ☐ Birthplace
- ☐ Date of Birth
- Residence
 - ☐ Street *
 - ☐ City
 - ☐ Zip Code *
- ☐ Census Tract **
- ☐ Race
- ☐ Ancestry *
- ☐ Age
- ☐ Education
- ☐ Marital Status
- ☐ Occupation *
- ☐ Industry *

Pregnancy History

- ☐ Live Births Living
- ☐ Live Births Dead
- ☐ Total Terminations
- ☐ Parity
- ☐ Gravidity
- ☐ Date Last Live Birth
- ☐ Date Last Termination

Delivery Payment *

- ☐ Blue Cross
- ☐ Commercial Ins
- ☐ HMO
- ☐ Medicaid/Commonwealth
- ☐ Medicare
- ☐ Healthy Start
- ☐ Other Government
- ☐ Worker's Comp
- ☐ Self-pay
- ☐ Free Care
- ☐ Other
- ☐ All

☐ Breastfeeding? *

PRENATAL INFORMATION

- ☐ Date Last Menses
- ☐ Weight Gained
 - During Pregnancy *
- ☐ Alcohol Usage(#drinks /week) *
- ☐ Tobacco Usage (# cigs/day) *

Prenatal Care

- ☐ Month Care Began
- ☐ Number Visits
- ☐ Adequacy Index

Type Practitioner

- ☐ MD/DO
- ☐ Physician's Assistant
- ☐ Nurse Practitioner
- ☐ Certified Nurse Midwife
- ☐ Other Reg. Nurse
- ☐ Midwife

Site of Care *

- ☐ Private
- ☐ Hospital Clinic
- ☐ HMO

Source of Payment - Prenatal Care *

- ☐ Common Health Center
- ☐ Other Payment Source
- ☐ Blue Cross
- ☐ Commercial Ins
- ☐ HMO
- ☐ Medicaid/Commonwealth
- ☐ Medicare
- ☐ Healthy Start
- ☐ Other Govt.
- ☐ Worker's Comp
- ☐ Self-pay
- ☐ Free Care
- ☐ Other

MEDICAL RISK FACTORS (MOTHER) *

- ☐ Acute or Chronic Lung Disease
- ☐ AIDS
- ☐ Anemia
- ☐ Cardiac Disease
- ☐ Diabetes
- ☐ Eclampsia
- ☐ Hemoglobinopathy
- ☐ Genital Herpes
- ☐ Hepatitis
- ☐ Hepatitis B Carrier
- ☐ Hydramnios/Oligo-hydramnios
- ☐ Hypertension (chronic)
- ☐ Hypertension (pregnancy related)
- ☐ Incompetent Cervix
- ☐ Lupus Erythematosus
- ☐ Previous Fetal Anomalies
- ☐ Previous Infant 4000+ grams
- ☐ Previous Preterm/Small for Age
- ☐ Psychiatric Disorder
- ☐ Renal Disease
- ☐ Rh Sensitization
- ☐ Rubella

- ☐ Seizure Disorder
- ☐ Sexually Transmitted Disease
- ☐ Sickle Cell
- ☐ Uterine Bleeding
- ☐ Other, specified by text

OBSTETRIC PROCEDURES

- ☐ Amniocentesis *
- ☐ Fetal Monitoring (External) *
- ☐ Fetal Monitoring (Internal) *
- ☐ Induction of Labor *
- ☐ Maternal Urinary Estriol *
- ☐ Pharmacological Inhibition *
- ☐ Steroid for Neonatal Pulmonary Maturity *
- ☐ Stimulation of Labor *
- ☐ Ultrasound *
- ☐ Other, specified by text *
- ☐ All *

Method of Delivery

- ☐ Vaginal
- ☐ Vaginal after prior C-section *
- ☐ Primary C-section +
- ☐ Repeat C-section +
- ☐ Forceps *
- ☐ Vacuum *
- ☐ Unknown

COMPLICATIONS OF LABOR * AND DELIVERY

- ☐ Abruptio Placenta
- ☐ Anesthetic Complications
- ☐ Breech/Other Malpresentation
- ☐ Cephalo-pelvic Disproportion
- ☐ Cord prolapse
- ☐ Dysfunctional labor
- ☐ Febrile--100°F, 38° C
- ☐ Fetal Distress
- ☐ Meconium (moderate/heavy)
- ☐ Other Excessive Bleeding
- ☐ Placenta Previa
- ☐ Precipitous labor (<3 hour)
- ☐ Prolonged Labor (> 20 hour)
- ☐ Premature Rupture of Membrane
- ☐ Prolonged Rupture of Membrane
- ☐ Seizures During Labor
- ☐ Other, specified by text

PERSONAL INFORMATION (INFANT)

Name

- ☐ First
- ☐ Middle
- ☐ Last
- ☐ Sex
- ☐ Time of Birth
- ☐ Birth Date
- ☐ Plurality
- ☐ Birth Order
- ☐ Birthweight
- ☐ Apgar 1 Minute
- ☐ Apgar 5 Minutes
- ☐ Gestational Age
(clinical estimate) *
- ☐ Gestational Age (generated from
date of last menses)

**ABNORMAL CONDITIONS OF
THE NEWBORN ***

- ☐ Acidosis
- ☐ Anemia (HCT<39/HGB<13)
- ☐ Assisted Ventilation (<30 min)
- ☐ Assisted Ventilation (>30 min)
- ☐ Cyanosis
- ☐ Erb's Palsy
- ☐ Fetal Alcohol Syndrome
- ☐ Hyaline Memb/RDS
- ☐ Hypotonia
- ☐ Hypoxia
- ☐ Seizures
- ☐ Intracranial Hemorrhage
- ☐ Jaundice (bilirubin > 10)
- ☐ Meconium Aspiration Syndrome
- ☐ Tachypnea
- ☐ Other, specified by text

CONGENITAL ANOMALIES *

- ☐ Anencephalus
- ☐ Cleft Lip
- ☐ Cleft Palate
- ☐ Club Foot
- ☐ Congenital Dislocation of Hip

- ☐ Diaphragmatic Hernia
- ☐ Down's syndrome
- ☐ Hydrocephalus
- ☐ Hypospadias
- ☐ Malformed Genitals
- ☐ Microcephalus
- ☐ Omphalocele/Gastroschisis
- ☐ Patent Ductus Arteriosus
- ☐ Poly/Syndactyly/ada
- ☐ Regan Agenesis
- ☐ Rectal Atresia/Stenosis
- ☐ Spina Bifida/Meningocele
- ☐ Tra./Esophageal Fistula, Atresia
- ☐ Other Anomalies (specified by text)
- ☐ Circulatory/Respiratory
- ☐ Urogenital
- ☐ Musculoskeletal/Integumental
- ☐ Chromosomal
- ☐ Gastrointestinal
- ☐ Central Nervous System
- ☐ Heart Malformations
- ☐ Other

PERSONAL INFORMATION (FATHER)

Name

- ☐ First
- ☐ Middle
- ☐ Last
- ☐ Birthplace
- ☐ Birth Date
- ☐ Race
- ☐ Ancestry (Ethnicity) *
- ☐ Age
- ☐ Education
- ☐ Occupation *
- ☐ Industry *

HOSPITAL INFORMATION

Location

- ☐ Facility Number
- ☐ Facility Name/Birth Address *
- ☐ Birth City Name

- ☐ Birth County Name
- ☐ Birth State Name

Transfer Information *

- ☐ Mother Transfer (yes/no)
- ☐ Facility Mother Transferred To
- ☐ Infant Transfer (yes/no)
- ☐ Facility Infant Transferred To

LEGAL INFORMATION

- ☐ Year of Event
- ☐ Certificate Number
- ☐ Record Number
- ☐ Other State Certificate Number

Informant *

- ☐ Informant Relationship
- ☐ Informant Date
- ☐ Informant Mailing Address

Certifier

- ☐ Certifier Type
- ☐ Certifier Title
- ☐ Certifier Name *

- ☐ License Number *
- ☐ Certifier Date *
- ☐ Certifier Address *

Access

(generated from "Is Mother Married?":
open, impounded, out of state, unknown)

DEATH INFORMATION

- ☐ Certificate Number of Death (available on
limited occasions in cases of infant deaths)
- ☐ Date of Death (added for infants who died
prior to completion of certificate and for
other limited records for the linked file)
- ☐ Baby alive at time of Report?

Please note the following:

* Indicates items available from 1987 - current

** Census Tract (Personal Information - Mother) before 1987 available for Boston only

+ C-section data not available prior to 1982

Variations may be found among data years for: Medical Risk Factors (Mother), Obstetric Procedures, Complications of Labor and Delivery, and Congenital Anomalies.

DATABASE/DATAFILE TITLE:

Census of Fatal Occupational Injuries (CFOI)

DATA SOURCE/METHODS:

Multiple: death certificates, newspaper reports, Worker Compensation records, and Occupational Safety and Health Administration (OSHA) reports

UNIVERSE/SAMPLE:

All Massachusetts occurrence deaths resulting from traumatic injuries or other external causes which occurred while the person was at work.

FREQUENCY/YEARS:

Annual, beginning in 1991

DATA ELEMENTS:

Demographics - Age, sex, race/ethnicity, industry, occupation

Medical Information - Cause of death, source of injury, activity leading up to injury

GEOGRAPHIC COVERAGE:

State x County City/Town

Census Tract

Community Health Network Area (CHNA) Zip Code Areas

RESTRICTIONS ON ACCESS:

Public Access: Summary data by topic and year; events of less than three are suppressed

Confidential: Individual records with person-identifying and employer-identifying information

STANDARD REPORTS GENERATED:

Annual newsletter: "Massachusetts Traumatic Deaths at Work: 1993 Update"

CONTACT PERSON:

Name: Richard Campbell
Division: Occupational Health Surveillance Program
Phone: (617) 624-5628

DATABASE/DATAFILE TITLE:

Deaths

DATA SOURCE/METHODS:

Death Certificate Registration System

UNIVERSE/SAMPLE:

All Massachusetts resident and occurrence deaths

FREQUENCY/YEARS:

The death registration system was computerized in 1969

DATA ELEMENTS: Due to changes in data collected, all items are not available for all years

Demographics - Age, sex, marital status

1980 on: date of birth, race, occupation and industry

1989 on: educational attainment, race/ethnicity

Medical - Date of death, cause of death

1980 on: mentioned conditions

1989 on : disposition, manner of death, and whether death resulted from injury at work

GEOGRAPHIC COVERAGE:

State x County x City/Town x

Census Tract x (as of 1987; Boston census tract from 1969 on)

Community Health Network Area (CHNA) x (created variable) Zip Code Areas x (1987 on)

RESTRICTIONS ON ACCESS:

Public Access: All records are public access except for out-of-state occurrence to Massachusetts residents

STANDARD REPORTS GENERATED:

Annual Report of the Vital Statistics of Massachusetts (Public Document 1)

Advance Data: Deaths

CONTACT PERSON: Name: Charlene Zion
Division: Registry of Vital Records and Statistics
Phone: (617) 753-8670

DATABASE/DATAFILE TITLE:

Divorces

DATA SOURCE/METHODS:

Certification of Divorce Registration System

UNIVERSE/SAMPLE:

All divorces that occur in the state of Massachusetts

FREQUENCY/YEARS:

Computerized files available for 1983 and from 1987 on

DATA ELEMENTS:

Date of marriage, number of previous marriages of husband and wife, number of children under age 18, plaintiff, cause of divorce, type of judgment, and date of divorce

GEOGRAPHIC COVERAGE:

State x County x City/Town

Census Tract

Community Health Network Area (CHNA) Zip Code Areas

RESTRICTIONS ON ACCESS:

Public Access: Limited summary data

STANDARD REPORTS GENERATED:

Annual Report of the Vital Statistics of Massachusetts (Public Document 1)

CONTACT PERSON: Name: Charlene Zion
 Division: Registry of Vital Records and Statistics
 Phone: (617) 753-8670

DATABASE/DATAFILE TITLE:

Fetal Deaths

DATA SOURCE/METHODS:

The fetal death registration system which requires fetal deaths of 20 or more weeks gestation or those where the fetus weighed at least 350 grams are reported.

UNIVERSE/SAMPLE:

All deaths of fetuses of Massachusetts residents or fetal deaths which occur in Massachusetts. A fetal death is a death prior to the complete expulsion or extraction from its mother of a product of conception, irrespective of the duration of the pregnancy; the death is indicated by the fact that after such separation the fetus does not breath or show any other evidence of life, such as the beating of the heart, pulsation of the umbilical cord, or definite movement of the voluntary muscles.

FREQUENCY/YEARS:

The system was computerized in 1969

DATA ELEMENTS:

Demographics - Parents' age, race, educational attainment, marital status of mother

Medical Information - Date of delivery, plurality, birth order, gestational age, birthweight, disposition, number of prenatal care visits, month prenatal care began, description of any congenital anomalies, and description of any complications of labor and delivery

GEOGRAPHIC COVERAGE:

State x County City/Town

Census Tract

Community Health Network Area (CHNA) Zip Code Areas

RESTRICTIONS ON ACCESS:

Public Access: Limited summary data

STANDARD REPORTS GENERATED:

Annual Report of the Vital Statistics of Massachusetts (Public Document 1)

CONTACT PERSON: Name: Charlene Zion
 Division: Registry of Vital Records and Statistics
 Phone: (617) 753-8670

DATABASE/DATAFILE TITLE:

Historical File: One Hundred and Fifty Years of Births and Deaths

DATA SOURCE/METHODS:

Annual Report of the Vital Statistics of Massachusetts (Public Document 1), 1842-1992

UNIVERSE/SAMPLE:

All Massachusetts resident and occurrence births and deaths

FREQUENCY/YEARS:

1842-1992

DATA ELEMENTS:

Population; marriages; divorces; births; infant deaths; deaths: total, age<5, infectious diseases, tuberculosis, pulmonary tuberculosis, HIV/AIDS, diphtheria, polio, smallpox, malaria, syphilis, gonorrhea, cancer, heart disease, pneumonia, influenza, pneumonia/influenza, maternal mortality, injuries, suicide, homicide

GEOGRAPHIC COVERAGE:

State x County City/Town

Census Tract (as of 1987)

Community Health Network Area (CHNA) Zip Code Areas

RESTRICTIONS ON ACCESS:

Public Access: This file is public

STANDARD REPORTS GENERATED:

Graphs based on this file are published in Advance Data: Births and Advance Data: Deaths

CONTACT PERSON: Name: Alice Mroszczyk
 Division: Administration
 Phone: (617) 624-5616

DATABASE/DATAFILE TITLE:

Linked Birth/Infant Deaths

DATA SOURCE/METHODS:

Birth and death certificate registration systems

UNIVERSE/SAMPLE:

All deaths to Massachusetts infants

FREQUENCY/YEARS:

Starting in 1969 to the present, the linked birth and death certificates for deaths of children whose age is less than 28 days. For the years 1970-1972, 1978-1980, and 1982 to the present, the linked birth and death certificates are also available for the deaths of children whose age is at least 28 days but less than one year

DATA ELEMENTS:

Same elements as on the birth and death certificates

GEOGRAPHIC COVERAGE:

State x County x City/Town x

Census Tract x

Community Health Network Area (CHNA) x Zip Code Areas x

RESTRICTIONS ON ACCESS:

Public Access: Aggregated data by topic and year, events of less than five are suppressed

Confidential: Access to individual records, with or without confidential medical information, must receive approval by the Massachusetts Department of Public Health through a detailed review process. See Data Request Protocols, page 13.

STANDARD REPORTS GENERATED:

Annual Report of the Vital Statistics of Massachusetts (Public Document 1)

CONTACT PERSON: Name: Charlene Zion
 Division: Registry of Vital Records and Statistics
 Phone: (617) 753-8670

DATABASE/DATAFILE TITLE:

Marriages

DATA SOURCE/METHODS:

The Marriage Certificate Registration System

UNIVERSE/SAMPLE:

All marriages that occur in the state of Massachusetts

FREQUENCY/YEARS:

Computerized files available for 1983 and from 1985 on

DATA ELEMENTS:

For Bride and Groom - Age, number of this marriage, previously widowed or divorced, and date of marriage

GEOGRAPHIC COVERAGE:

State x County x City/Town x

Census Tract

Community Health Network Area (CHNA) x Zip Code Areas

RESTRICTIONS ON ACCESS:

Public Access: Limited aggregate data only

STANDARD REPORTS GENERATED:

Annual Report of the Vital Statistics of Massachusetts (Public Document 1)

CONTACT PERSON: Name: Charlene Zion
 Division: Registry of Vital Records and Statistics
 Phone: (617) 753-8670

DATABASE/DATAFILE TITLE:

Massachusetts Cancer Registry

DATA SOURCE/METHODS:

From 1982-1994, only hospitals submitted data. Starting in 1995, all health care facilities and physicians are required to report. Also, reciprocal agreements exist with registries in Florida, Connecticut, Maine, New Hampshire, Vermont, New York, and Rhode Island to obtain data on Massachusetts residents diagnosed out-of-state.

UNIVERSE/SAMPLE:

All primary incident cases of cancer diagnosed among Massachusetts residents

FREQUENCY/YEARS:

Data collection began in 1982, ongoing

DATA ELEMENTS:

Demographics - Age, sex, race/ethnicity, state of birth, usual occupation and industry, smoking status

Medical Information - place and date of diagnosis, primary site, histology, stage, sequence number, confirmation method, vital status. (Note: Expanded dataset for cases diagnosed as of 1995 will include follow-up and treatment information.)

GEOGRAPHIC COVERAGE:

State x County x City/Town x

Census Tract x (To be available in the future)

Community Health Network Area (CHNA) x Zip Code Areas x (by special request only)

RESTRICTIONS ON ACCESS:

Public Access: Aggregated data by topic and year. Restrictions are placed on data for small areas.

Confidential data: Individual records available to qualified researchers whose applications are approved by the Research Review Committee of the Massachusetts Cancer Registry Advisory Committee and authorized by the Commissioner of the Department of Public Health. See Data Request Protocols, page 13.

STANDARD REPORTS GENERATED:

Reports published annually. Latest available - Cancer Incidence in Massachusetts: 1982-1992.

CONTACT PERSON: Name: Annie MacMillan
 Division: Massachusetts Cancer Registry
 Phone: (617) 624-5648

DATABASE/DATAFILE TITLE:

Massachusetts Tobacco Survey

DATA SOURCE/METHODS:

Random digit dial telephone interview survey

UNIVERSE/SAMPLE:

Probability sample of households with telephones. Over-sampling was done in Boston, Worcester, Fall River, New Bedford, Lowell, Lawrence and Springfield. The sample resulted in 4,733 adults and 1,606 youth

FREQUENCY/YEARS:

The baseline survey was carried out between October 1993 and March 1994.

DATA ELEMENTS:

Demographics - Age, sex, race/ethnicity, household composition

Medical Information - current smoking status, smoking history, exposure to second-hand smoke, attitude toward smoking and smoking policy

GEOGRAPHIC COVERAGE:

To be determined

RESTRICTIONS ON ACCESS:

To be determined

STANDARD REPORTS GENERATED:

Baseline Summary Report and non-technical Brochures

CONTACT PERSON:	Name:	Doris Cullen
	Division:	Massachusetts Tobacco Control Program
	Phone:	(617) 624-5914

DATABASE/DATAFILE TITLE:

Occupational Lead Registry

DATA SOURCE/METHODS:

Laboratory reports (resulting from participation in a surveillance program or self-motivated medical examination) and personal interviews

UNIVERSE/SAMPLE:

All reports for persons 15 years and older with a blood lead level of 25 mcg/dl or greater

FREQUENCY/YEARS:

Annual, beginning in April 1991

DATA ELEMENTS:

For persons with a blood lead level of 25 mcg/dl or greater - Age, Sex, and Hispanic surname

For persons with a blood lead level of 40 mcg/dl or greater, above items and (from detailed personal interview) industry, occupation, source of contamination(occupational or non-occupational), training received on lead hazards, regular notification of blood lead levels, and whether person was removed from job due to harmful exposure

GEOGRAPHIC COVERAGE:

State x County City/Town

Census Tract

Community Health Network Area (CHNA) Zip Code Areas

RESTRICTIONS ON ACCESS:

Public Access: numbers of persons or reports by blood lead levels by industry and occupation

Confidential: Individual records with person-identifying and employer-identifying information

STANDARD REPORTS GENERATED:

Lead at Work: Elevated Blood Lead Levels among Massachusetts Workers: 1991-1993

CONTACT PERSON: Name: Letitia K. Davis, ScD
 Division: Occupational Health Surveillance Program
 Phone: (617) 624-5621

DATABASE/DATAFILE TITLE:

Sentinel Event Notification System for Occupational Risks (SENSOR)

DATA SOURCE/METHODS:

Physician reports, Worker Compensation data, Uniform Hospital Discharge Data Set with personal follow-up interviews

UNIVERSE/SAMPLE:

All reported, suspected and confirmed cases of work-related carpal tunnel syndrome and asthma, and all work-related injuries to children under age 18

FREQUENCY/YEARS:

Annual, beginning in March of 1992

DATA ELEMENTS:

Demographics - Age, sex, race/ethnicity, industry, occupation

Medical Information - Diagnosis, risk-factor exposure in workplace

GEOGRAPHIC COVERAGE:

State x County City/Town

Census Tract

Community Health Network Area (CHNA) Zip Code Areas

RESTRICTIONS ON ACCESS:

Public Access: Summary data by condition by industry, occupation, gender, age, race and ethnicity

Confidential: Individual records with person-identifying information

STANDARD REPORTS GENERATED:

Bi-monthly newsletter with summary data on occupational lung disease
Periodic newsletter with summary data on occupational carpal tunnel syndrome

CONTACT PERSON: Name: Helen Wellman
Division: Occupational Health Surveillance Program
Phone: (617) 624-5629

DATABASE/DATAFILE TITLE:

The Weapon Related Injury Surveillance System (WRISS)

DATA SOURCE/METHODS:

Reporting by personnel of acute care hospital emergency departments which are open to the general public

UNIVERSE/SAMPLE:

All cases of gunshot wounds and violence-related sharp instrument wounds

FREQUENCY/YEARS:

Pilot sites: 1990-1993

Statewide: November 1993 , ongoing

DATA ELEMENTS:

Demographics - Age, sex, race/ethnicity

Incident Information - Place of occurrence, precipitating circumstances, relation of victim to offender, mode of arrival in the emergency room

Medical Information - Location of wound, cause of wound (violence, accident, self-inflicted), discharge diagnosis, suspected intoxication of victim

GEOGRAPHIC COVERAGE:

State x County City/Town x (with 25,000 or more persons)

Census Tract

Community Health Network Area (CHNA) Zip Code Areas

RESTRICTIONS ON ACCESS:

Public Access: Summary data by topic and year

Confidential: Individual records with person-identifying information

STANDARD REPORTS GENERATED:

Annual newsletter summarizing results and occasional special bulletins, journal articles, and slide presentations

CONTACT PERSON: Name: Cathy Barber
 Division: Weapon Related Injury Surveillance System
 Phone: (617) 624-5663

ELECTRONIC ACCESS TO DATA

Massachusetts Department of Public Health Internet Home Page:

World Wide Web: <http://www.magnet.state.ma.us/dph/>

MassCHIP

An information service which provides community-level data, MassCHIP produces standard and custom reports, maps and graphs for use in assessing community needs, monitoring health status, and program evaluation.

The Massachusetts Community Health Information Profile (MassCHIP) is a dynamic, user-friendly information service developed by the Massachusetts Department of Public Health (MDPH).

Purpose: MassCHIP is a source of community-level data for use in

- assessing community need
- monitoring health status indicators
- evaluating programs.

MassCHIP provides MDPH staff, MDPH contractors, health care providers and community agencies with easy access to 18 different health status, health outcome, program utilization, and demographic data sets. MassCHIP has the ability to create reports at various geographic levels with multiple search criteria, as well as the capacity to create standard reports on selected health topics.

Data sets:

Vital Statistics

- Deaths (1989-1994)
- Births (1987-1994)
- Linked birth/infant death (1989-1992)

Communicable Disease

- Childhood immunization (1989-1995)
- measles, pertussis, hepatitis B (1989-1994)
- tuberculosis (1989-1994)
- gonorrhea, chlamydia, syphilis (1989-1994)
- AIDS (1986-1994)

Sociodemographics

U.S. Census population data:

population counts and interpolations (1985-1995)
census survey demographic data (1990)

- Medicaid recipients (1993)
- Unemployment (1990-1995)

MDPH Program Utilization

- Early Intervention (1991-1995)
- WIC (1992-1995)
- Substance Abuse treatment admissions (1992-1994)

Other

- Childhood lead screening (1990-1994)
- Cancer incidence (1987-1992)
- Hospital discharges (1989-1992)
- Behavioral Risk Factor Survey (1989-1992)

Geographic Levels:

- 351 Massachusetts cities and towns
- Neighborhoods in Boston, Springfield, Lowell
- User-defined combinations of cities and towns
- Several standard "regional" groupings (counties, MDPH regions, Community Health Network Areas (CHNAs), Healthy Start regions)

Calculated Statistics and Measures

- Observed counts and statewide proportions
- Crude rates, age-adjusted rates, age-specific rates, standardized ratios (hospitalizations, mortality, cancer incidence)

Search Criteria

(As available in original file, these variables allow the user to narrow the search to selected groups of interest)

- Data year
- Race/Ethnicity
- Age
- Education
- Income
- Sex

Search Options across Data Sets

- Search for all data elements by Healthy People Year 2000 Objectives; linkages possible from data elements or from Healthy People Year 2000 Objective listing
- Search by ICD codes
- Search by "Health Topic Index" for health topic/health issue categories

Reports

Standard reports (pre-determined sets of data elements, measures, selectors; custom choice of geographic level allowed):

- Healthy People 2000 Chronic Disease Objectives
- Healthy People 2000 Maternal & Child Health Objectives
- Perinatal Health
- Smoking (risks, morbidity, mortality, and hospitalizations)
- Breast Cancer (screening, incidence, mortality, and hospitalizations)
- CHNA Health Status Indicators
- Custom reports (user-selected choices of data sets, selectors, measures, data elements)
- Maps and graphs
- Small numbers are suppressed as needed to protect confidentiality

Technical Environment and Access

- Graphical User Interface written in Visual BASIC for easy use and maintenance.
- Microsoft SQL server database engine running on NT 3.5 Server, supporting 100 simultaneous users through MDPH local area network.
- Client/server-based application with support for up to 40 external users via modems on separate communication server running NT 3.5 Server.
- Minimum requirement for access: Intel-based 386 computer (486 highly recommended) running Microsoft Windows, Windows for Workgroup, Windows 95 or Windows NT with 8 Mbytes RAM, and at least 10 Mbytes of disk space available. Access to either the Internet at 14,400 bps or faster or to MAGNet.
- Telephone help line.

System Status:

Phase One provides access to MDPH staff for testing purposes in 1996. Public access through the Internet or MAGNet will be available in late 1996.

Phase Two will include additional data sets, more mapping and graphics features, and additional standard reports.

Funding for MassCHIP is provided by:

Massachusetts Department of Public Health

Public Health Foundation

Maternal and Child Health Bureau, HRSA

U.S. Department of Health and Human Services

For further information about MassCHIP contact:

Marlene Anderka or Katherine Messenger

Bureau of Family and Community Health (617) 624-5500 or 624-6079

or

Daniel J. Friedman or Christine Payne

Bureau of Health Statistics, Research and Evaluation (617) 624-5613 or 624-5641

